

INTEGRATED SENSING SYSTEM

CROSS-REFERENCE TO RELATED APPLICATIONS

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[001] The present invention is related to provisional application ^{60/449,940} (~~Attorney Docket 202-0745~~) entitled "Integrated Sensing System for an Automotive System," filed on February 26, 2003 and incorporated by reference herein.

Technical Field

[002] The present invention relates generally to a vehicle sensing system and, more specifically, to a system for controlling an automotive vehicle in response to sensed dynamic behavior from the sensing system.

Background

[003] Various automotive vehicles have recently begun including vehicle dynamic control systems. Such vehicle dynamic control systems include yaw stability control systems, roll stability control systems, integrated vehicle dynamic control systems, etc. The ongoing goal of vehicle controls is to achieve a coordinated system of vehicle performance for ride, handling, safety and fuel economy.

[004] With current advances in mechatronics, vehicle controls have increased opportunities for achieving performances, which were previously reserved for spacecraft and aircraft. For example, gyro sensors, previously only used in aircraft, have now been incorporated in various vehicle controls, and the anti-lock brake systems invented for airplanes are now standard automotive control systems. Current sensor technology generates ever increasing opportunities for vehicle control.